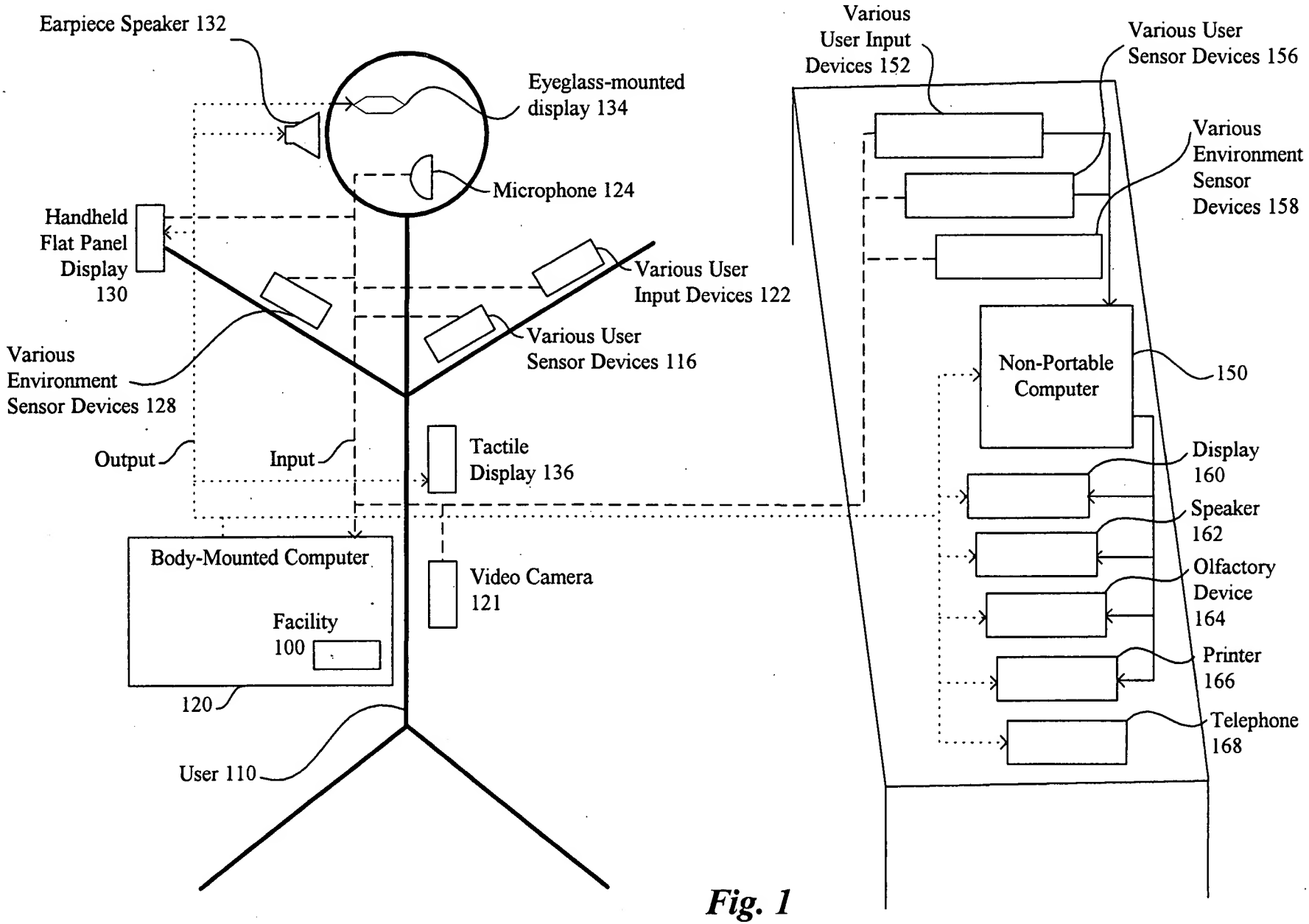

Fig. 1

8005-fig1.vsd

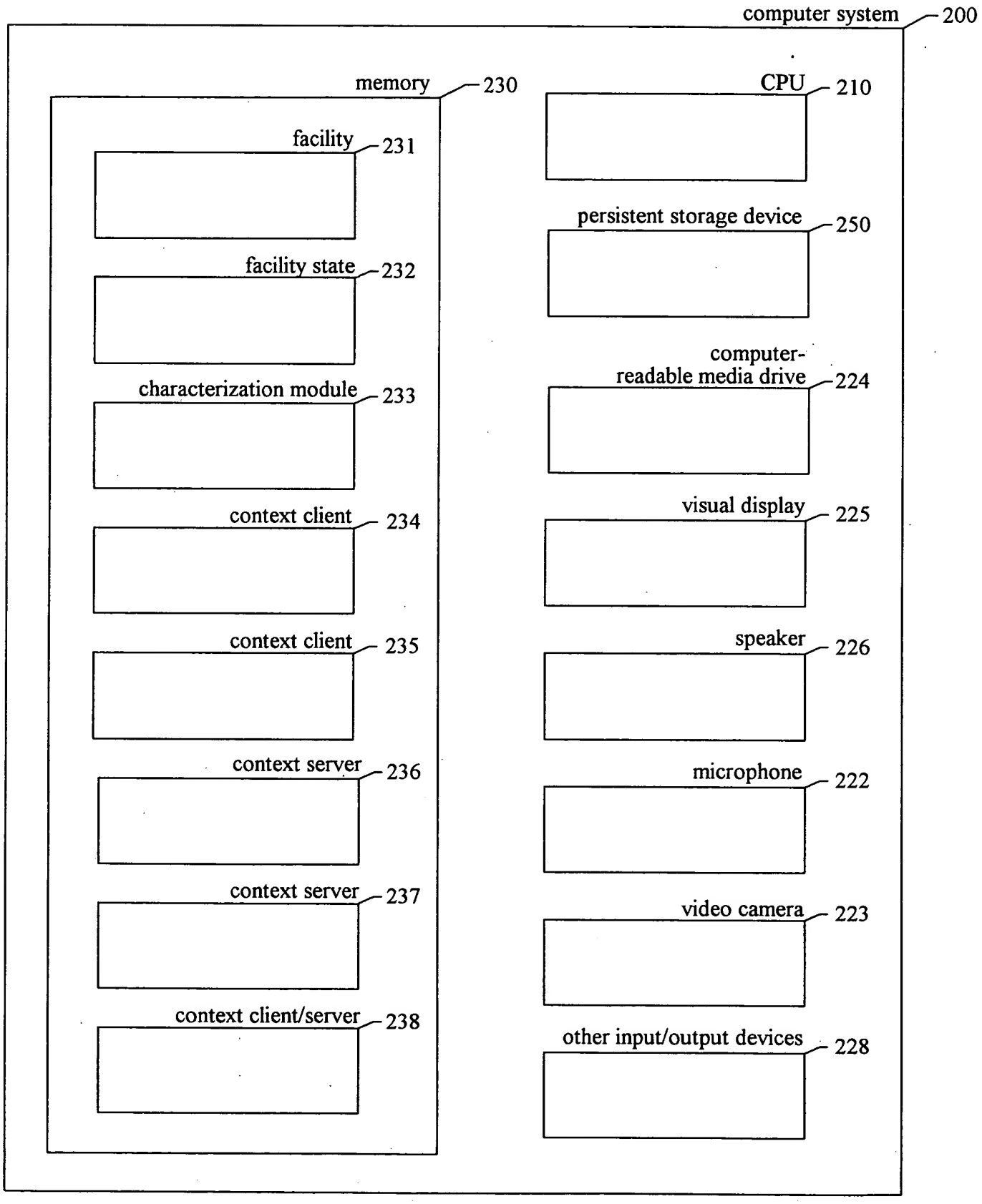

Fig. 2

8005-fig2.vsd

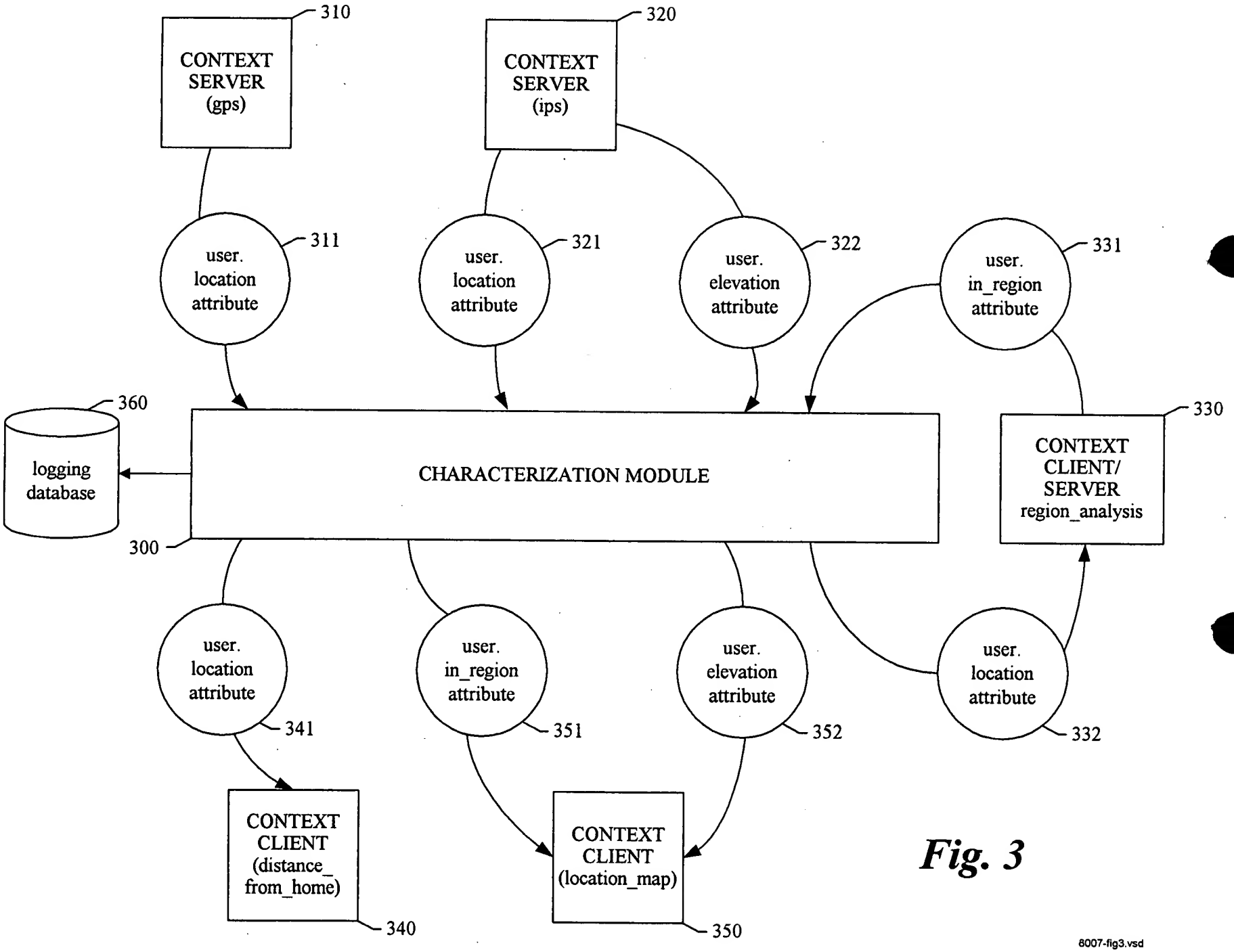
CONTEXT SERVER (gps)
310
CONTEXT SERVER (ips)
320
user. location attribute
311
user. location attribute
321
user. elevation attribute
322
user. in_region attribute
331
logging database
360
CHARACTERIZATION MODULE
300
CONTEXT CLIENT/ SERVER region_analysis
330
user. location attribute
341
user. in_region attribute
351
user. elevation attribute
352
user. location attribute
332
CONTEXT CLIENT (distance_ from_home)
340
CONTEXT CLIENT (location_map)
350
6007-fig3.vsd

Fig. 3

attribute instance table 400

	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
401	user.location	gps	47°38.73' N, 122° 18.43' W	0° .09'	13:11:04.023 2/22/2000	degrees/minutes	2
402	user.location	ips	47°38.745' N, 122° 18.424' W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
403	user.elevation	ips	22	.5	13:11:01.118 2/22/2000	meters	1
404	user.in_region	location_region_ analysis	none	.05%	none	none	0
	411	412	413	414	415	416	417

Fig. 4

8007-fig4.vsd

logging configuration table 500

	log name	attribute name	context server name	logging frequency	maximum attribute value age	importance level	pre-logging processing	maintenance processing	last logged
501	user_log	user.location	gps	00:02:00.000	00:00:00.000	8	none	none	14:05:10.011 2/22/2000
502	user_log	user.in_region	location_region_ analysis	00:10:00.000	00:02:30.000	6	omit logging where value matches last-logged	summarize weekly	14:04:36.121 2/22/2000
	511	512	513	514	515	516	517	518	519

Fig. 5

attribute log table -- user_log 700

	attribute name	context server	value	uncertainty	timestamp	units	format version	flags	logged time
701	user.location	gps	47°38.73' N, 122° 18.43' W	0° .09'	14:01:09.724 2/22/2000	degrees/minutes	1.01	none	14:01:09.727 2/22/2000
702	user.location	gps	47°38.745' N, 122° 18.22' W	0° .09'	14:03:09.873 2/22/2000	degrees/minutes	1.01	none	14:03:09.877 2/22/2000
703	user.in_region	location_region_ analysis	TRUE	.05%	14:04:30.408 2/22/2000	none	1.01	none	14:04:36.121 2/22/2000
704	user.location	gps	47°38.745' N, 122° 18.22' W	0° .10'	14:05:10.008 2/22/2000	degrees/minutes	1.01	none	14:05:10.011 2/22/2000
	711	712	713	714	715	716	717	718	719

Fig. 7

8007-fig4-5-7.vsd

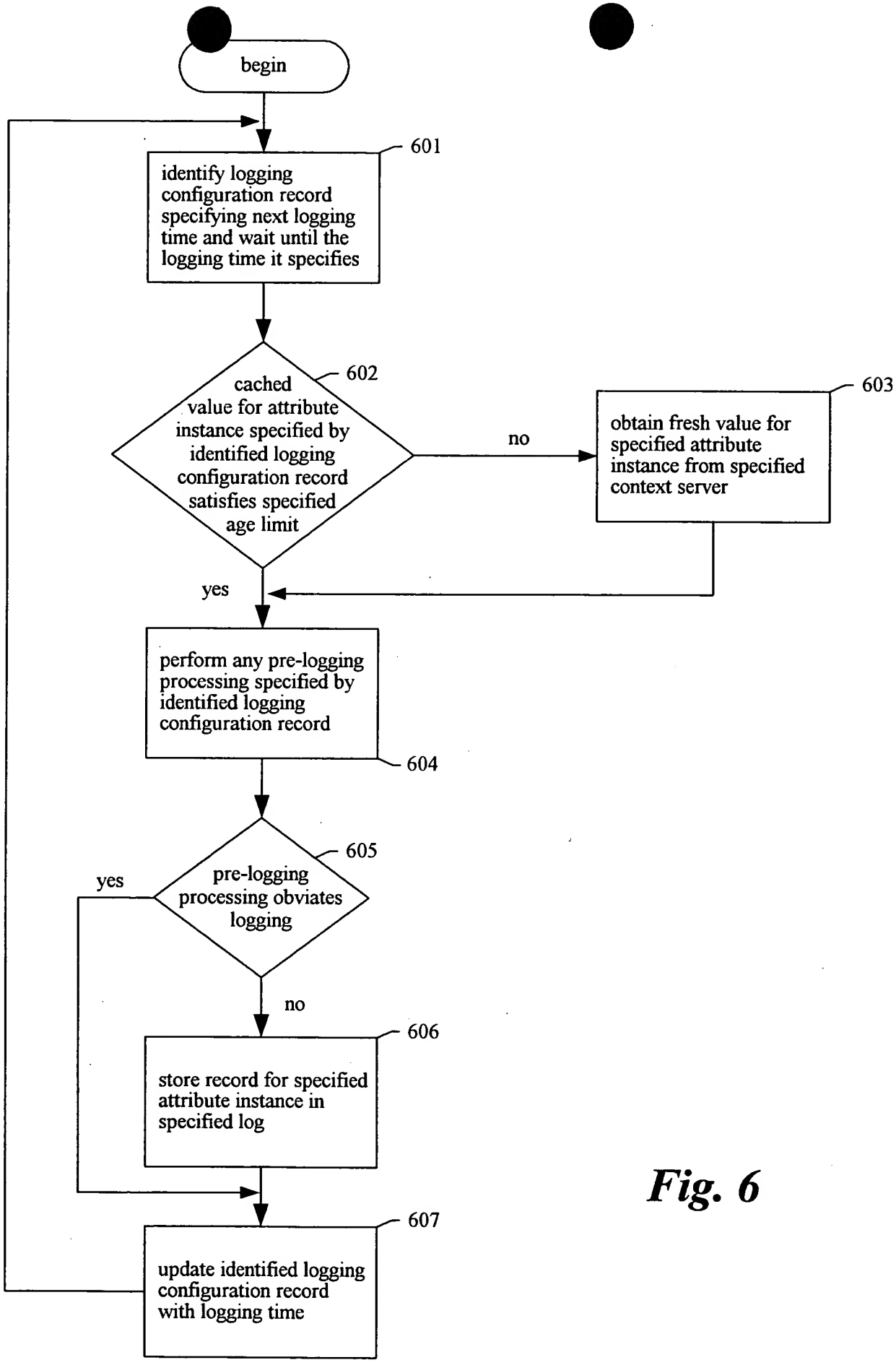

Fig. 6

8007-fig6.vsd

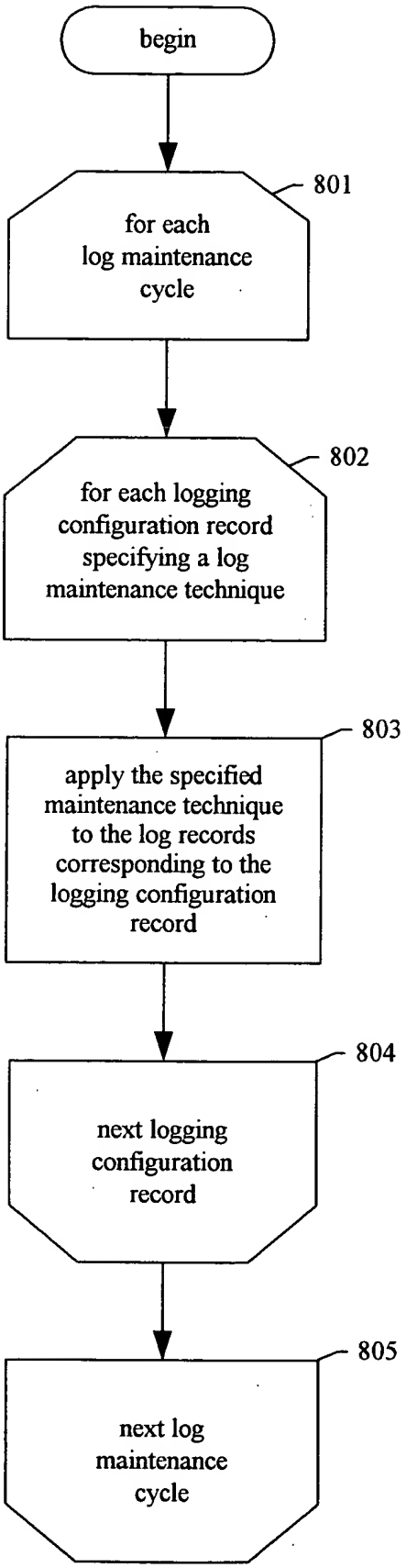

Fig. 8

8007-fig8.vsd

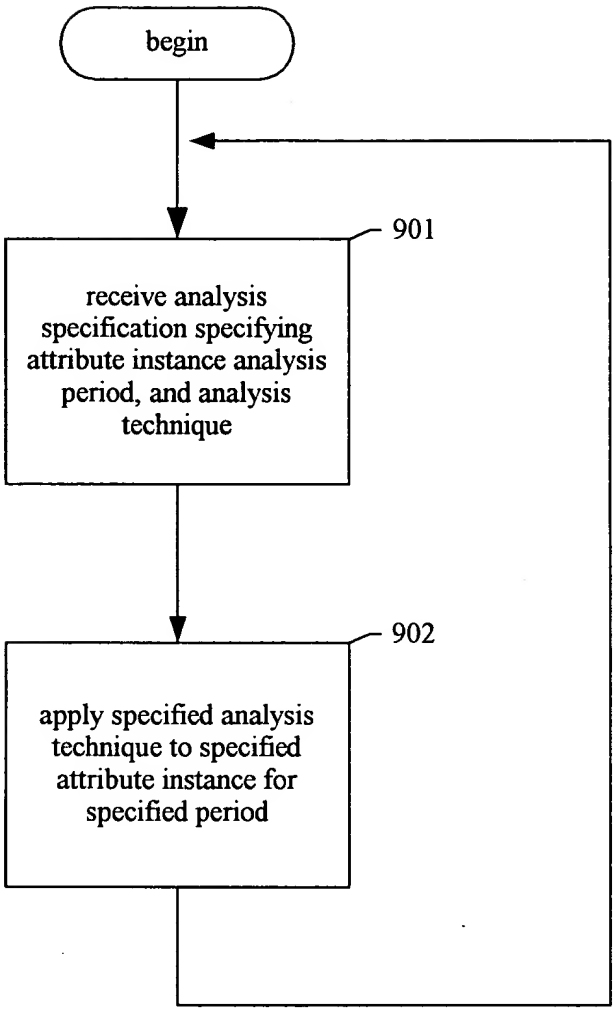

Fig. 9

8007-fig9.vsd

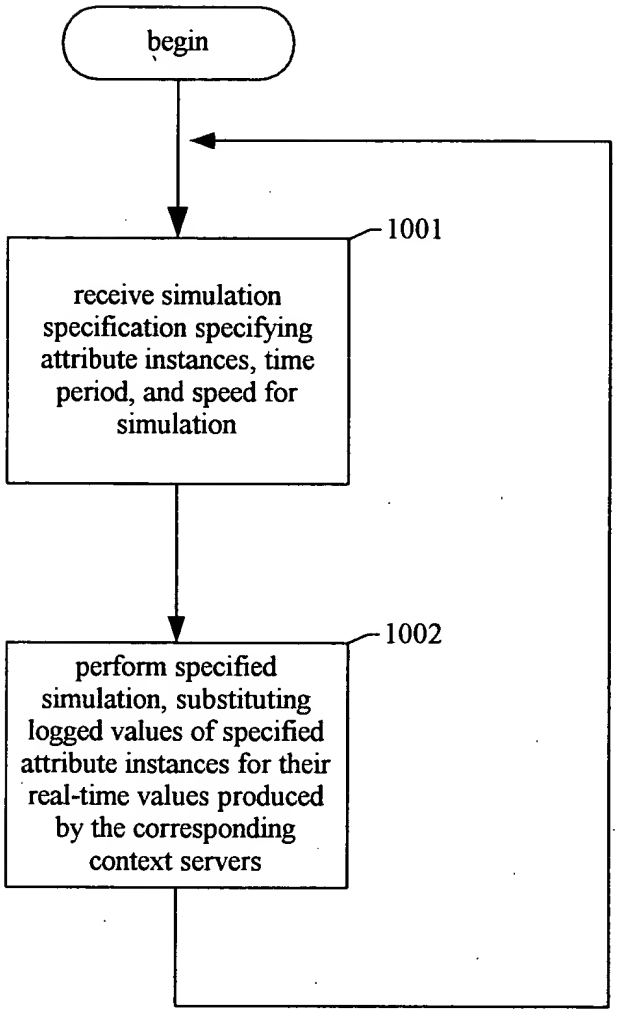

Fig. 10

8007-fig10.vsd

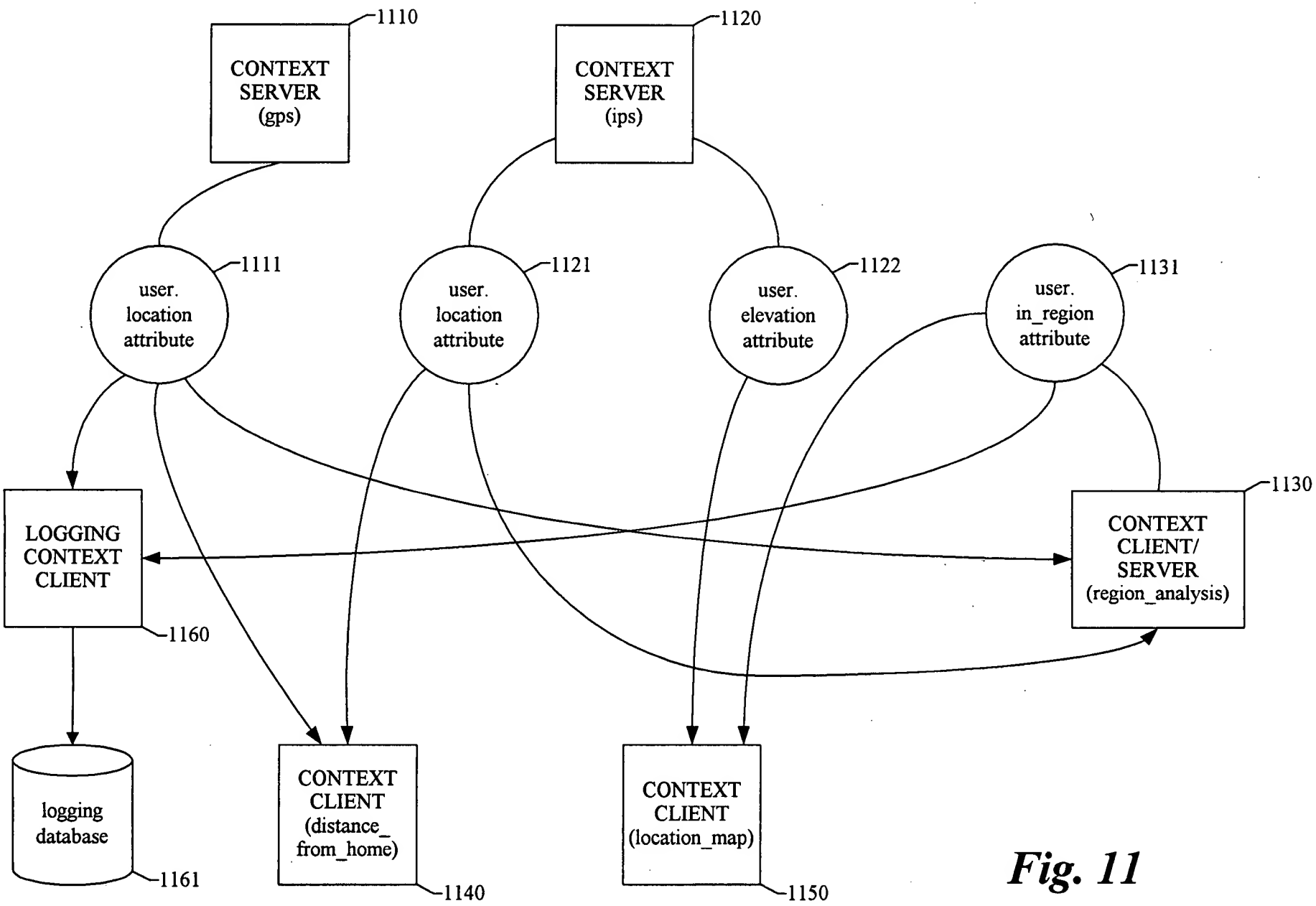

Fig. 11

8007-fig11.vsd